



# CONSTRUCTION EQUIPMENT

## JOHN DEERE 544K 653783 - DIESEL ENGINE



**Sample No:** VCP452239  
**Oil Type:** JOHN DEERE ENGINE OIL PLUS 50 II 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP452239	VCP409339	---	---
Sample Date	25 Jan 2024	10 Feb 2023	---	---
Machine Hours	19961	19493	---	---
Oil Hours	0	2000	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

**OLDCASTLE LAWN AND GARDEN**  
 2427 RWS RANCH RD  
 DAVENPORT, FL  
 US 33837  
 Contact: DAVID ORTIZ  
 david.ortiz@oldcastle.com  
 T: (800)833-2984  
 F: (863)421-1776



### OIL CONDITION

Visc @ 100°C	cSt	▲ 11.0	▲ 12.1	---	---
Base Number (BN)	mg KOH/g	■ 7.3	■ 6.9	---	---
Oxidation (PA)	%	82	69	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. No other contaminants were detected in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 1.1	■ 0.6	---	---
Nitration (PA)	%	92	88	---	---
Sulfation (PA)	%	62	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.5	---	---
Silicon	ppm	■ 5	■ 4	---	---
Sodium	ppm	■ 0	■ 3	---	---
Potassium	ppm	■ 6	■ 2	---	---



### WEAR METALS

Iron	ppm	■ 25	■ 24	---	---
Copper	ppm	■ 7	▲ 47	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ 0	■ 3	---	---
Aluminum	ppm	■ 3	■ 2	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 48	■ 66	---	---
Nickel	ppm	■ 0	■ <1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 0	■ 1	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	■ 1382	■ 1297	---	---
Magnesium	ppm	■ 466	■ 783	---	---
Zinc	ppm	■ 984	■ 1195	---	---
Phosphorus	ppm	■ 750	■ 874	---	---
Barium	ppm	■ 5	■ 2	---	---
Boron	ppm	■ 22	■ 2	---	---

**Depot:** GREDAVFL  
**Unique No:** 10863258  
**Signed:** Don Baldrige  
**Report Date:** 07 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

